



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)


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The Eastern Iowa DX Bulletin

Number 198, December 1, 2023

Craig Fastenow, KØCF, Editor

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article.

Articles are ordered by the entity's callsign prefix from the *ARRL DXCC Entities List*. Callsigns used are in **bold** with dates of operation highlighted in **red**. Clickable links are provided for QSL and other information wherever possible. Articles will remain in *The Bulletin* while active, but with a 5-week maximum.

Also included is a [Propagation](#) section, updated daily; and a [Contest Calendar](#) of upcoming popular contests.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcndxhf.de>

Propagation data is from the National Oceanic and Atmospheric

Administration's [Space Weather Prediction Center](#)

Contest data courtesy of the [WA7BNM Contest Calendar](#)



Solar-Terrestrial Data

02 Dec 2023 1555 GMT
 SFI: 162 SN: 90
 A-Index: 56
 K-Index: 1
 X-Ray: C1.4
 304A: 150.9 @ SEM
 Ptn Flx: 727
 Elc Flx: 9970
 Aurora: 1/n=1.99
 Mag (Bz): 11.8
 Solar Wind: 444.6
 Geomag Field VR QUIET
 Sig Noise Lvl S0-S1
 Current Solar Image



<http://www.n0nbh.com>
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Solar data courtesy of:
[Solar Data Banners & Widgets](#)

DX News

3W, VIET NAM. Jacek, SP5APW is QRV as **3W9C** from Con Son Island (AS-130) **until December 9th**. Activity is on 20, 17, 15, 10, and 6 meters using SSB and FT8. QSL to [SP5APW](#).

-[ARRL DX Bulletin # 48 November 30, 2023] (1201-1208)

4S, SRI LANKA. Peter, DCØKK is active again as **4S7KKG** from Sri Lanka (AS-003, grid MJ96xk) **until March 30, 2024**. He operates FT8, FT4, RTTY and possibly CW on 20-6 meters. QSL via LoTW, [ClubLog's OQRS](#), or direct to [DCØKK](#).

-[425DXN # 1697 November 11, 2023] (1110-1215)

4W, TIMOR-LESTE. A large group of operators will be QRV as **4W8X** from Dili from **November 6th to December 5th**. Activity will be on the HF bands using CW, SSB, RTTY, FT8, and FT4. This includes being entries in the upcoming WAEDC RTTY and CQ WW DX CW Contest (November 25th-26th). For more information see: <http://timor-leste-dx.de/>.

QSL via [DJ4MX](#) or [ClubLog's OQRS](#).

-[ARRL DX Bulletin # 44 November 2, 2023] (1103-1208)

5H, TANZANIA. Ferdy, HB9DSP is QRV as **5H3FM** from Zanzibar Island (AF-032) **until December 5th**. Activity is on the HF bands using SSB, FM, and FT8. QSL to [HB9DSP](#).

-[ARRL DX Bulletin # 48 November 30, 2023] (1201-1208)

5H, TANZANIA. Maurizio, IK2GZU will be active again as **5H3MB** from Tanzania from **November 8th to December 8th**, while doing volunteer work at the Ikelu Hospital and Ilembula Orphanage. In his spare time he will operate SSB, CW and digital modes on 80-10 meters. QSL via [ClubLog's OQRS](#), LoTW and eQSL, or via [IK2GZU](#).

-[425DXN # 1690 September 23, 2023] (1103-1208)

5R, MADAGASCAR. Moise, F4EZG is QRV as **5R8VE** from Nosy Fali (AF-057) **until December 3rd**, and from the main island of Madagascar (AF-013) **December 5th to January 3rd, 2024**. Activity is on 20 to 10 meters using SSB and FT8. QSL to [F4EZG](#).

-[ARRL DX Bulletin # 48 November 30, 2023] (1201-0105)

7Q, MALAWI. Don, K6ZO is QRV as **7Q6M** from Embangweni **until May 13, 2024**, and has been active on 160 meters. QSL via LoTW.

-[ARRL DX Bulletin # 48 November 30, 2023] (1201-0105)

9L, SIERRA LEONE. Shabu, MØKRI is QRV as **9L5M** from Freetown **until December 5th**. Activity is on 80 to 6 meters using CW, SSB, and FT8. This includes being active on Satellite QO-100. QSL via LoTW.

-[ARRL DX Bulletin # 48 November 30, 2023] (1201-1208)

A6, UNITED ARAB EMIRATES. Special callsign **A6ØND** is the for the Emirates Amateur Radio Society to celebrate the UAE National Day (**December 2nd**). QSL via [EA7FTR](#). Also expected to take part in the celebrations are the Bahrain Amateur Radio Society as **A91UAE** (**November 26th - December 2nd**), the Saudi Amateur Radio Society as **HZ1UAE** (**November 26th - December 2nd**), the Kuwait Amateur Radio Society as **9K9UAE** (**November 30th - December 6th**), and possibly the Royal Omani Amateur Radio Society as **A43UAE**.

-[425DXN # 1700 December 2, 2023] (1201-1208)

A6, UNITED ARAB EMIRATES. Special callsign **A6ØWRC** will be used by members of the Emirates Amateur Radio Society during the ITU World Radiocommunication Conference 2023 (WRC-23) taking place in Dubai from **November 20th to December 15th**. QSL via [EA7FTR](#). Individual operators may append a serial number to the special callsign, and be QRV as **A6ØWRC/Ø**, **A6ØWRC/1**, etc. (see qrz.com for the QSL routes).

-[425DXN # 1699 November 25, 2023] (1124-1215)

A9, BAHRAIN. Celebrating the Kingdom of Bahrain's National Day, the Bahrain Amateur Radio Society will be active as **A91ND** on **December 1st-16th**. QSL via [EC6DX](#).

-[425DXN # 1699 November 25, 2023] (1124-1222)

CE9, ANTARCTICA. Dave, VK2JDS will be active occasionally as **VKØDS** from Davis Station, Antarctica from **December 2023 until November 2024**. The bands that he hopes to be on are "some HF bands, possibly WSPR on 6 meters (depending on local science projects), 2 meters EME (only on occasions when I get time off and conditions are favorable), possibly 23cm EME". Nothing is certain, he says, as "weather conditions and station duties will take precedence". QSL direct to [VK2JDS](#) and LoTW.

-[425DXN # 1699 November 25, 2023] (1201-1229)

CEØY, EASTER ISLAND. Jorge, **CEØYHF** is QRV **until December 10th** while working at a hospital on Pascua Island (SA-001). Activity is in his spare time on 30 to 6 meters using some CW and SSB, but mostly FT8. QSL direct to [CEØYHF](#).

-[ARRL DX Bulletin # 48 November 30, 2023] (1201-1215)

CN, MOROCCO. Yannick, F6FYD will be active as **CN2YD** from Marrakech, Morocco from **December 1st to March 15, 2024**. He plans to operate as CN2YD/p from IOTA group AF-065 sometime during his stay. QSL via [F6FYD](#).

-[425DXN # 1699 November 25, 2023] (1124-1229)

DXCC TOP TWENTY. Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of December 1, 2023:

1. P5	DPRK (North Korea)	11. 3Y/B	Bouvet Island
2. BS7H	Scarborough Reef	12. ZS8	Prince Edward & Marion Islands
3. CEØX	San Felix Islands	13. KH4	Midway Island
4. BV9P	Pratas Island	14. VKØM	Macquarie Island
5. KH7K	Kure Island	15. PYØS	Saint Peter And Paul Rocks
6. KH3	Johnston Island	16. PYØT	Trindade & Martim Vaz Islands
7. FT/G	Glorioso Island	17. KP5	Desecheo Island
8. 3Y/P	Peter 1 Island	18. VP8S	South Sandwich Islands
9. FT5/X	Kerguelen Island	19. KH5	Palmyra & Jarvis Islands
10. YVØ	Aves Island	20. ZL9	New Zealand Subantarctic Islands

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF December 1, 2023] (1201-1215)

EA, SPAIN. Celebrating Christmas and the New Year, members of Radio Club Liria (EA5RCL) will be active as **EH5XMAS** from **December 7th to January 7th**. QSL via the bureau to [EA5RCL](#), LoTW and eQSL.

-[425DXN # 1700 December 2, 2023] (1201-0105)

F, FRANCE. Members of the Radio-club de Lyon (F8KLY) will be active as **TM1AB** from **November 25th to December 9th**. The special callsign commemorates the 100th anniversary of the first transatlantic amateur two-way contact between Leon Deloy, F8AB and Fred Schnell, 1MO (November 28, 1923).

-[425DXN # 1698 November 18, 2023] (1117-1208)

F, FRANCE. Michel, F8GGZ will be active as **TM1ØØLTB** from **November 25th to December 3rd**. The special callsign commemorates the 100th anniversary of the first transatlantic amateur two-way contact between Leon Deloy, F8AB and Fred Schnell, 1MO (November 28, 1923). QSL via the bureau.

-[425DXN # 1697 November 11, 2023] (1124-1208)

F, FRANCE. The Radio Club de Wingles (F4KLR) will be active as **TM125ED** from **November 4th to December 31st**. The special callsign commemorates the 125th anniversary since radio pioneer Eugene Ducretet gave a public demonstration of wireless communication between the Eiffel Tower and the Pantheon 4 km away (November 5, 1898). All CW and SSB QSOs will be confirmed automatically via the bureau and eQSL, FT8 QSOs will be confirmed via eQSL only; direct cards via [F4KLR](#).

-[425DXN # 1693 October 14, 2023] (1103-1208)

FJ, SAINT BARTHELEMY. Phil, K2LIO is QRV as **FJ4WEB** until **December 31st**. Activity is holiday style on 40 to 10 meters. QSL to [K2LIO](#).

-[ARRL DX Bulletin # 44 November 2, 2023] (1103-1208)

FK, NEW CALEDONIA. Jean-Louis, F5NHJ is active again as **FK/F5NHJ** from New Caledonia's main island (Grande Terre, OC-032), with side trips to nearby Ile des Pins (also OC-032) until **mid-January 2024**. He operates digital modes, CW and SSB on 80-6m. He will upload his log to ClubLog and LoTW.

-[425DXN # 1699 November 25, 2023] (1124-1229)

FS, SAINT MARTIN. FS4WBS, K9NU, N9EP, W9AP, and K9EL operate as **TO9W** from Saint Martin from **November 26th to December 8th**. For more information see:

<http://www.k9el.com/TO9W/TO9W.htm>. QSL via [W9ILY](#), [ClubLog's OQRS](#), LoTW.

-[DXNL # 2381 November 22, 2023] (1124-1208)

G, ENGLAND. Special callsigns **GBØWHO**, **GB1WHO**, **GB2WHO**, **GB4WHO**, **GB5WHO**, **GB6WHO**, **GB8WHO** and **GB9WHO** are for members of the Chertsey Radio Club to celebrate the 60th anniversary of science fiction cult series "Doctor Who" until December 20th. QSL via LoTW and eQSL. Broadcast by the BBC, "Doctor Who" has been listed in the Guinness Book of Records as the TV's longest-running sci-fi show in the world. The series began on November 23, 1963, and the original run aired 694 episodes consecutively across 26 seasons until 1989; it was revived in 2005 after 16 years off the screen.
-[425DXN # 1699 November 25, 2023] (1124-1222)

HB9, SWITZERLAND. Special callsign **HB8DELOY** is the for members of the Swiss Air Force Museum's Radio Club (HB4FR) to commemorate the 100th anniversary of the first transatlantic amateur two-way contact between Leon Deloy, F8AB and Fred Schnell, 1MO (November 28, 1923). Look for activity from November 1st to December 31st. QSL via [HB9ACA](#) (bureau preferred).
-[425DXN # 1696 November 4, 2023] (1103-1208)

HR, HONDURAS. Team **HQ9X** (K1XM, KQ1F, N9NC, NG7A and W1UE) will be active from Roatan Island (NA-057) from November 20th to December 4th, including entries in the CQ WW DX CW Contest (November 25th-26th), the ARRL 160-Meter Contest (first night only), and the FT Roundup (complete information can be found on <https://www.rttycontesting.com/ft-roundup/>). QSL via [KQ1F](#).
-[425DXN # 1698 November 18, 2023] (1117-1208)

HR, HONDURAS. Gerard, F2JD will be active again as **HR5/F2JD** from Copan, Honduras from November 25th to March 21st, 2024. He will operate CW, SSB and FT8/ FT4 on the HF bands. QSL via [F6AJA](#); log search on <http://LesNouvellesDX.fr/voirlogs.php>.
-[425DXN # 1695 October 28, 2023] (1124-1229)

HR, HONDURAS. K1XM, KQ1F, W1UE, N9NC, and NG7A are currently active as **HQ9X**. They will stay until December 4th, covering participation in the CQ WW DX CW Contest (November 25th-26th) and the ARRL 160m Contest. QSL via [KQ1F](#).
-[DXNL # 2381 November 22, 2023] (1124-1208)

HS, THAILAND. Brad, VK2BY will be active again as **HSØZNR** from the Nam Yuen district in northeastern Thailand from December 6th to January 14th. He will be QRV on 160-10 meters and will focus on working stations "that contribute to LoTW and eQSL". QSL direct to [VK2BY](#) and LoTW.
-[425DXN # 1699 November 25, 2023] (1201-1205)

HZ, SAUDI ARABIA. Special callsign **HZ3ØEXPO** is the for the Saudi Amateur Radio Society (HZ1SAR) to celebrate the election of Saudi Arabia as host country of World Expo 2030, which will take place in Riyadh. Look for activity from November 30th to December 9th.
-[425DXN # 1700 December 2, 2023] (1201-1208)

I, ITALY. Members of ARI Bergamo will be active as **II2GLNO** on December 1st-2nd. They will operate SSB and CW on 80, 40 and 20 meters. The special callsign memorializes the 100th anniversary of the Gleno Dam disaster (December 1, 1923), when the middle section of the dam collapsed and caused widespread flooding that killed some 400 people. QSL via [IQ2BG](#).
-[425DXN # 1699 November 25, 2023] (1201-1208)

KL7, ALASKA. Team **KL7RRC** (Alex KL5CX, Yuri N3QQ and Tim NL8F) will be active from St. Paul, Pribilof Islands (NA-028) on December 7th-15th. They will operate CW, SSB and digital modes on 80-10 meters with up to four stations. ClubLog's Live Stream feature will be enabled. QSL via [ClubLog's OQRS](#); full LoTW upload after six months. See <https://www.qrz.com/db/KL7RRC> for more information.
-[425DXN # 1696 November 4, 2023] (1201-1215)

OE, AUSTRIA. Watch for **OE1ØØXBB** operating in the celebration of the 100th anniversary of Austria's federal railway system **until December 15th**. QSL via bureau.
-[DXNL # 2380 November 15, 2023] (1117-1215)

PA, NETHERLANDS. Celebrating Christmas and the New Year, special callsigns **PA23XMAS** and **PD23SANTA** will be active on **December 1st-31st**, while **PD24HNY** will be QRV **until January 31st**. QSL cards will not be issued, but a certificate will be available (see <https://www.qrz.com/db/PA23XMAS>).
-[425DXN # 1699 November 25, 2023] (1124-1229)

PJ2, CURACAO. Jeff, K8ND is QRV as **PJ2ND**. Activity is on the HF bands. He plans to be QRV as **PJ2T** in the ARRL 160 Meter contest (**December 1st-3rd**), and the upcoming ARRL 10 Meter (**December 9th-10th**), Stew Perry Topband DX Challenge (**December 30th-31st**), and the CQ World Wide 160 Meter CW (**January 26th-28th**) contests. QSL PJ2ND to [K8ND](#), and PJ2T via [KU9C](#).
-[ARRL DX Bulletin # 48 November 30, 2023] (1201-0105)

PJ7, SINT MAARTEN. After the CQ WW DX SSB Contest, Ed, N2HX will move from St. Kitts to Sint Maarten (NA-105). He will be QRV as **PJ7PL**, including entries in the CQ WW DX CW Contest (November 25th-26th) and the ARRL 10- Meter Contest (December 9th-10th). QSL via [N2HX](#).
-[425DXN # 1694 October 21, 2023] (1103-1215)

PZ, SURINAME. Nobu, JAØJHQ plans to be active as **PZ5NH** from **December 7th to 11th** operating on 160 to 6 meters, using CW, SSB and FT8. QSL direct to [JAØJHQ](#) or LoTW.
-[ARRL DX Bulletin # 45 November 9, 2023] (1201-1215)

S7, SEYCHELLES. Operators G4IKRN, G3WPH, G4IRN and G4PVM will be QRV as **S79/home calls** **beginning November 21st**. This includes being an entry in the upcoming CQ WW DX CW Contest (November 25th-26th) with a yet to be determined call sign. QSL via operators' instructions.
-[ARRL DX Bulletin # 46 November 16, 2023] (1117-1208)

SP, POLAND. Special callsign **SN15AXI** honors the memory of Janek Bonikowski, SP3AXI, a scout leader and amateur radio Elmer, who died in 2008. QRV **until the end of January 2024**. QSL via bureau or eQSL.
-[DXNL # 2379 November 8, 2023] (1110-1215)

SV, GREECE. Special callsign **SX25GTC** will be in use on **December 1st-15th** to celebrate the 25th anniversary since the formation of the Greek Telegraphy Club (<https://raag.org/gtc-club-en/>). Look for activity on 160-6 meters CW. QSL via LoTW. Certificates will be available, see qrz.com for information.
-[425DXN # 1699 November 25, 2023] (1124-1215)

T32, EAST KIRIBATI. Members of the Rebel DX Group are QRV as **T32TT** from Christmas Island (OC-024) **until December 21st**. Activity is on 160 to 6 meters using CW, SSB, FT8, and FT4. QSL via OQRS.
-[ARRL DX Bulletin # 48 November 30, 2023] (1201-1222)

V5, NAMIBIA. Marc, ZS6DOT is QRV as **V51NA** from Walvis Bay. Activity is on 40, 20, 17, and 15 meters using mostly SSB. QSL to [ZS6DOT](#).
-[ARRL DX Bulletin # 48 November 30, 2023] (1201-0105)

V5, NAMIBIA. Gunter, DK2WH will be active again as **V51WH (V55Y** in contests) from Namibia starting on **November 16th through April 2024**. He operates SSB, CW and FT8 on 160-10 meters. QSL via [DK2WH](#); he does not use LoTW.
-[425DXN # 1697 November 11, 2023] (1117-1215)

V6, MICRONESIA. A group of operators will be QRV as **V6EU** from Chuuk Island (OC-011) from **December 4th to 16th**. Activity will be on 160 to 10 meters using CW, SSB, RTTY, and FT8. QSL via [DL2AWG](#).

-[ARRL DX Bulletin # 48 November 30, 2023] (1201-1215)

V6, MICRONESIA. After spending nine full days on Satawal Atoll (V62S), Cezar VE3LYC commenced operations as **V62P** from Puluwat Atoll (OC-155) just before 0600 UTC on November 24th. As of November 21st, the situation appeared rather uncertain: "I have specifically requested a minimum of four operating days from Puluwat but will see what happens in the end. Please refrain from making multiple contacts with V62P, so that more hams can have a chance at logging the rare OC-155. All this change of schedule has a pretty negative effect on me, amplified by the fact that I didn't feel well for the past couple of days". As an added inconvenience, Cezar's laptop failed a few days ago, and now he is logging manually on paper.

-[425DXN # 1699 November 25, 2023] (1124-1215)

VK9C, COCOS (KEELING) IS. Yuris, YL2GM and Eugene, EA5EL will be active as **VK9CY** from the Cocos (Keeling) Islands (OC-003) from **November 29th to December 7th**. They will operate CW, SSB and FT8 on 160-6 meters with two stations. QSLs via [ClubLog's OQRS](#) (direct and bureau), or direct to [YL2GN](#). See https://www.lral.lv/vk9xy_vk9cy/index.html for information.

-[425DXN # 1697 November 11, 2023] (1124-1208)

VK9X, CHRISTMAS ISLAND. Chris, GM3WOJ and Keith, GM4YXI will be active as **VK9XGM** from Christmas Island (OC-002) from **November 21st to December 5th**, including a M/2 entry in the CQ WW DX CW Contest (November 25th-26th). They will operate SSB, CW and FT8/FT4 on 160-10 meters with two stations. QSL via LoTW, or [N3SL](#); log search on ClubLog. See <https://www.vk9xgm.com/> for more information.

-[425DXN # 1687 September 2, 2023] (1117-1208)

VP2V, BRITISH VIRGIN IS. Look for **VP2V/AG9A**, **VP2V/K2KW**, **VP2V/KD4D** and **VP2V/W9RE** to be active holiday style from Anegada, British Virgin Islands (NA-023) on **December 4th-12th**. They will operate CW, SSB and digital modes mostly on 20- 10 meters. Main activity will be during the ARRL 10-Meter Contest (December 9th-10th) as **VP2VMM**. QSL via LoTW, [ClubLog's OQRS](#), or via [KU9C](#).

-[425DXN # 1699 November 25, 2023] (1201-1215)

VP8, FALKLAND IS. Commemorating the 75th anniversary of the Falkland Islands Government Aviation Service, special event station **VP8FLY** will be active from the northeast end of Stanley airport, Falkland Islands (SA-002) **during the month of December**, and especially on **December 19**. QSL direct to [VP8LP](#).

-[425DXN # 1699 November 25, 2023] (1201-1229)

VU, INDIA. Datta, VU2DSI will be active once again as **AU2JCB** from **November 23rd to December 11th** to commemorate the birthdate (November 30, 1858) of Indian physicist and radio pioneer Jagadish Chandra Bose. He will operate SSB on 80, 40, 20, 15 and 10 meters, and FM on 50800, 51500 and 29700 KHz. QSL direct to [VU2DSI](#). Also QRV are expected to be **AU3JCB** (operated by VU2EVU) and **AU5JCB** (operated by VU2XPN).

-[425DXN # 1697 November 11, 2023] (1117-1215)

XT, BURKINA FASO. Harald, DF2WO will be active again as **XT2AW** from Burkina Faso on **December 6th – 19th**. He operates all modes on the HF bands, 6 meters and via QO-100. QSL via [MØQXO's OQRS](#) and LoTW.

-[425DXN # 1700 December 2, 2023] (1201-1222)

YB, INDONESIA. Operators [YB9IPY](#) and [YC9GBO](#), along with Burkhard, [DL3KZA](#) being active as **YB9/DL3KZA**, are QRV from Sumbawa Island (OC-150) **until December 4th**.

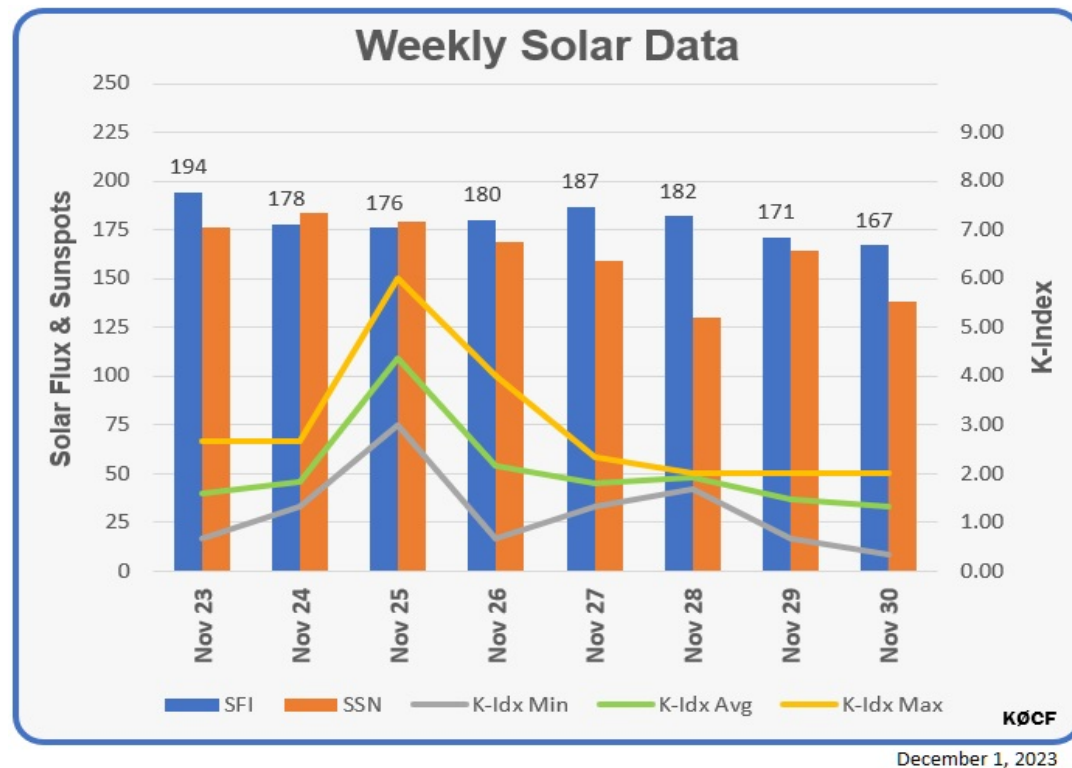
QSL direct to home calls.

-[ARRL DX Bulletin # 48 November 30, 2023] (1201-1208)

ZF, CAYMAN ISLANDS. Stan, K5GO will be QRV as **ZF9CW** until **February 15th, 2024**, on the HF bands, using mostly CW, with some SSB. QSL direct to [K5GO](#).

-[ARRL DX Bulletin # 45 November 9, 2023] (1110-1215)

Propagation (Updated daily)



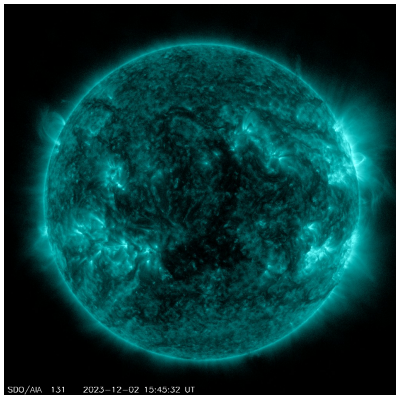
The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (K-Idx) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



Propagation Summary

For the 8 day period from Thursday, November 23rd through yesterday, November 30th.

The average solar flux was up 20 points from the previous week, with a weekly high of 194 on Thursday, November 23rd, followed by a low of 167 on November 30th.

The average sunspot count was up 56 for the week, peaking at 184 on Friday, November 24th followed by a weekly low of 130 on November 28th.

The Planetary K-index weekly average was 3.0 with a maximum of 6.0 on Saturday, November 25th, resulting in moderate geomagnetic storm conditions.

Solar flare activity since November 23rd has been moderate with 6 major flares, the largest of which was an M 9.8 event on Tuesday, November 28th.

Propagation Data

Major solar flares, Thursday, November 23rd through 1358 UTC, December 1st.

#	Date	UTC	Mag.
1	Dec 01	0439	M 1.1
2	Nov 28	1950	M 9.8
3	Nov 28	1932	M 3.4
4	Nov 24	0933	M 1.1
5	Nov 23	1437	M 1.0
6	Nov 23	0338	M 1.4

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

Date	M-Flares	X-Flares	Solar Flux
Dec 1	35%	10%	166
Dec 2	35%	10%	162
Dec 3	35%	10%	158

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA only once a week, on Monday.

Date	Flux	Kp
Dec 1	170	2
Dec 2	165	2
Dec 3	160	2
Dec 4	150	4

Date	Flux	Kp
Dec 5	145	5
Dec 6	140	4
Dec 7	140	4
Dec 8	140	2

Date	Flux	Kp
Dec 9	145	2
Dec 10	145	2
Dec 11	140	2
Dec 12	140	4

Highs for Cycle 25

Solar Flux: 234 on January 15, 2023.

Sunspots: 227 on July 11, 2023.

Favorite Propagation web sites

Excellent Maximum Usable Frequency map: <https://prop.kc2g.com/>
<https://www.spaceweather.com/>
<https://www.solarham.net/>
<https://dx.qsl.net/propagation/>

A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

Contest Calendar

Contest	Start		End		Web Site
ARRL 160-Meter Contest	Dec 1	2200Z	Dec 3	1600Z	Rules
ARRL 10-Meter Contest	Dec 9	0000Z	Dec 10	2359Z	Rules
OK DX RTTY Contest	Dec 16	0000Z	Dec 16	2400Z	Rules
Croatian CW Contest	Dec 16	1400Z	Dec 17	1400Z	Rules
ARRL Rookie Roundup, CW	Dec 17	1800Z	Dec 17	2359Z	Rules
RAC Winter Contest	Dec 30	0000Z	Dec 30	2359Z	Rules
Stew Perry Topband Challenge	Dec 30	1500Z	Dec 31	1500Z	Rules
ARRL RTTY Roundup	Jan 6	1800Z	Jan 7	2400Z	Rules
ARRL Kids Day	Jan 6	1800Z	Jan 6	2359Z	Rules
YB DX Contest	Jan 13	0000Z	Jan 13	2359Z	Rules
North American QSO Party, CW	Jan 13	1800Z	Jan 14	0600Z	Rules

Hungarian DX Contest	Jan 20	1200Z	Jan 21	1200Z	Rules
North American QSO Party, SSB	Jan 20	1800Z	Jan 21	0600Z	Rules
ARRL January VHF Contest	Jan 20	1900Z	Jan 22	0359Z	Rules
CQ 160-Meter Contest, CW	Jan 26	2200Z	Jan 28	2159Z	Rules
BARTG RTTY Sprint	Jan 27	1200Z	Jan 28	1200Z	Rules
Winter Field Day	Jan 27	1700Z	Jan 28	1700Z	Rules
Vermont QSO Party	Feb 3	0000Z	Feb 4	2400Z	Rules
10-10 Int. Winter Contest, SSB	Feb 3	0001Z	Feb 4	2359Z	Rules
Mexico RTTY International Contest	Feb 3	1200Z	Feb 4	2359Z	Rules
Minnesota QSO Party	Feb 3	1400Z	Feb 3	2400Z	Rules
British Columbia QSO Party	Feb 3	1600Z	Feb 4	2400Z	Rules
North American Sprint, CW	Feb 4	0000Z	Feb 4	0359Z	Rules
CQ WW RTTY WPX Contest	Feb 10	0000Z	Feb 11	2400Z	Rules
ARRL School Club Roundup	Feb 12	1300Z	Feb 16	2359Z	Rules
ARRL Inter. DX Contest, CW	Feb 17	0000Z	Feb 18	2400Z	Rules
CQ 160-Meter Contest, SSB	Feb 23	2200Z	Feb 25	2159Z	Rules
North American QSO Party, RTTY	Feb 24	1800Z	Feb 25	0600Z	Rules
North Carolina QSO Party	Feb 25	1500Z	Feb 26	0100Z	Rules
ARRL Inter. DX Contest, SSB	Mar 2	0000Z	Mar 3	2400Z	Rules
Open Ukraine RTTY Championship	Mar 2	1800Z	Mar 3	1359Z	Rules

-[Contest data courtesy of the [WA7BNM Contest Calendar](#)]